

## Patent Assignment Abstract of Title

**Total Assignments: 1****Application #:** 10631916 **Filing Dt:** 07/31/2003**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** US20050027268**Pub Dt:** 02/03/2005**Inventors:** Jian Qin, Xiaomin Zhang, Debra Ann Graverson**Title:** Absorbent materials and absorbent articles incorporating such absorbent materials**Assignment: 1****Reel/Frame:** 015075 /  
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7**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignors:** QIN, JIAN**Exec Dt:** 09/11/2003ZHANG, XIAOMIN**Exec Dt:** 09/11/2003GRAVERSON, DEBRA, ANN**Exec Dt:** 09/11/2003**Assignee:** KIMBERLY-CLARK WORLDWIDE, INC.

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**Inventor Name Search Result**

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Last Name = QIN

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| Application#    | Patent#        | Status | Date Filed | Title   | Inventor Name |
|-----------------|----------------|--------|------------|---|---------------|
| <u>07757760</u> | Not Issued     | 166    | 09/11/1991 | THIN ABSORBENT ARTICLE HAVING RAPID UPTAKE OF LIQUID  | QIN, JIAN     |
| <u>07757787</u> | Not Issued     | 166    | 09/11/1991 | ABSORBENT COMPOSITES AND ABSORBENT ARTICLES CONTAINING SAME   | QIN, JIAN     |
| <u>07837304</u> | Not Issued     | 161    | 02/14/1992 | MODIFIED POLYSACCHARIDES HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF | QIN, JIAN     |
| <u>07870529</u> | Not Issued     | 161    | 04/17/1992 | MODIFIED POLYSACCHARIDES HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF | QIN, JIAN     |
| <u>07906001</u> | Not Issued     | 166    | 06/26/1992 | ABSORBENT COMPOSITES AND ABSORBENT ARTICLES CONTAINING SAME   | QIN, JIAN     |
| <u>08096654</u> | <u>5509915</u> | 150    | 07/22/1993 | THIN ABSORBENT ARTICLE HAVING RAPID UPTAKE OF LIQUID  | QIN, JIAN     |
| <u>08116180</u> | <u>5470964</u> | 150    | 09/02/1993 | PROCESS FOR THE PREPARATION OF MODIFIED POLYSACCHARIDES HAVING IMPROVED ABSORBENT PROPERTIES          | QIN, JIAN     |
| <u>08145453</u> | <u>5550189</u> | 150    | 10/29/1993 | MODIFIED POLYSACCHARIDES HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF | QIN, JIAN     |
| <u>08171379</u> | Not Issued     | 123    | 12/21/1993 | ABSORBENT COMPOSITES AND ABSORBENT ARTICLES   | QIN, JIAN     |

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|-----------------|----------------|-----|------------|---|-----------|
|                 |                |     |            | CONTAINING SAME   |           |
| <u>08362395</u> | <u>5599916</u> | 150 | 12/22/1994 | CHITOSAN SALTS HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF           | QIN, JIAN |
| <u>08392439</u> | <u>5498705</u> | 150 | 02/22/1995 | MODIFIED POLYSACCHARIDES HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF | QIN, JIAN |
| <u>08458212</u> | Not Issued     | 161 | 06/02/1995 | CHITOSAN SALTS HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF           | QIN, JIAN |
| <u>08703411</u> | Not Issued     | 163 | 08/26/1996 | MODIFIED POLYSACCHARIDES HAVING IMPROVED ABSORBENT PROPERTIES AND PROCESS FOR THE PREPARATION THEREOF | QIN, JIAN |
| <u>08759108</u> | <u>6951895</u> | 150 | 12/02/1996 | ABSORBENT COMPOSITION   | QIN, JIAN |
| <u>08977918</u> | <u>5985434</u> | 150 | 11/25/1997 | ABSORBENT FOAM  | QIN, JIAN |
| <u>08978263</u> | <u>5948829</u> | 150 | 11/25/1997 | PROCESS FOR PREPARING AN ABSORBENT FOAM   | QIN, JIAN |
| <u>08989555</u> | Not Issued     | 168 | 12/12/1997 | STRUCTURE HAVING BALANCED PH PROFILE COMPRISING ACIDIC POLYMER  | QIN, JIAN |
| <u>08989556</u> | Not Issued     | 168 | 12/12/1997 | STRUCTURE HAVING BALANCED PH PROFILE COMPRISING BASIC POLYMER   | QIN, JIAN |
| <u>08996485</u> | <u>6197322</u> | 150 | 12/23/1997 | ANTIMICROBIAL STRUCTURES  | QIN, JIAN |
| <u>09188358</u> | <u>6639120</u> | 150 | 11/10/1998 | STRUCTURE HAVING BALANCED PH PROFILE  | QIN, JIAN |
| <u>09220409</u> | Not Issued     | 163 | 12/24/1998 | NONWOVEN WEB OF SUPERABSORBENT FIBER AND METHOD   | QIN, JIAN |
| <u>09407385</u> | Not Issued     | 161 | 09/28/1999 | ABSORBENT FOAM  | QIN, JIAN |
| <u>09473164</u> | Not Issued     | 161 | 12/28/1999 | METHODS OF MAKING FIBROUS MATERIALS WITH  | QIN, JIAN |

|                 |                |     |            |   |           |
|-----------------|----------------|-----|------------|---|-----------|
|                 |                |     |            | ACTIVATING AGENTS FOR MAKING SUPERABSORBENT POLYMERS  |           |
| <u>09473166</u> | Not Issued     | 161 | 12/28/1999 | ABSORBENT STRUCTURE COMPRISING SYNERGISTIC COMPONENTS FOR SUPERABSORBENT POLYMER              | QIN, JIAN |
| <u>09473183</u> | <u>6677256</u> | 150 | 12/28/1999 | FIBROUS MATERIALS CONTAINING ACTIVATING AGENTS FOR MAKING SUPERABSORBENT POLYMERS             | QIN, JIAN |
| <u>09531247</u> | Not Issued     | 161 | 03/21/2000 | Permanently wettable superabsorbents  | QIN, JIAN |
| <u>09572492</u> | Not Issued     | 168 | 05/15/2000 | Polysaccharide absorbent and method   | QIN, JIAN |
| <u>09626014</u> | <u>6469130</u> | 150 | 07/26/2000 | SYNTHETIC FIBER NONWOVEN WEB AND METHOD   | QIN, JIAN |
| <u>09641185</u> | Not Issued     | 168 | 08/17/2000 | All purpose absorbent cleaning wipes  | QIN, JIAN |
| <u>09641186</u> | Not Issued     | 168 | 08/17/2000 | Process for the manufacture of all purpose absorbent cleaning wipes                           | QIN, JIAN |
| <u>09667874</u> | Not Issued     | 61  | 09/22/2000 | Absorbent having good absorbency and wicking properties                                       | QIN, JIAN |
| <u>09842470</u> | <u>6603054</u> | 150 | 04/26/2001 | FIBROUS ABSORBENT MATERIAL AND METHODS OF MAKING THE SAME                                     | QIN, JIAN |
| <u>09957686</u> | Not Issued     | 161 | 09/20/2001 | Methods of making fibrous materials with activating agents for making superabsorbent polymers | QIN, JIAN |
| <u>10005299</u> | Not Issued     | 61  | 12/04/2001 | Absorbent composites having cooling effect  | QIN, JIAN |
| <u>10006781</u> | <u>6998367</u> | 150 | 12/06/2001 | ABSORBENT COMPOSITION CONTAINING TRANSITIONAL CROSSLINKING POINTS                             | QIN, JIAN |
| <u>10010869</u> | Not Issued     | 61  | 12/07/2001 | Absorbent structure and method  | QIN, JIAN |
| <u>10015936</u> | <u>6696618</u> | 150 | 12/12/2001 | ABSORBENT COMPOSITES EXHIBITING SWELLING/DESWELLING PROPERTIES                                | QIN, JIAN |
| <u>10017465</u> | <u>6706944</u> | 150 | 12/14/2001 | ABSORBENT MATERIALS HAVING IMPROVED ABSORBENT PROPERTIES                                      | QIN, JIAN |
| <u>10017683</u> | Not            | 168 | 12/14/2001 | Absorbent materials having  | QIN, JIAN |

|                 |                |     |            |  |           |
|-----------------|----------------|-----|------------|--|-----------|
|                 | Issued         |     |            | improved fluid intake and lock-up properties   |           |
| <u>10036746</u> | Not Issued     | 71  | 12/21/2001 | Nonabsorbent surge layer having discrete regions of superabsorbent and method for making                             | QIN, JIAN |
| <u>10087367</u> | <u>6620503</u> | 150 | 03/01/2002 | SYNTHETIC FIBER NONWOVEN WEB AND METHOD  | QIN, JIAN |
| <u>10091801</u> | <u>6692825</u> | 150 | 03/06/2002 | SYNTHETIC FIBER NONWOVEN WEB AND METHOD  | QIN, JIAN |
| <u>10154607</u> | Not Issued     | 41  | 05/23/2002 | Meltblown absorbent fibers and composites and method for making the same   | QIN, JIAN |
| <u>10206888</u> | <u>6822135</u> | 150 | 07/26/2002 | FLUID STORAGE MATERIAL INCLUDING PARTICLES SECURED WITH A CROSSLINKABLE BINDER COMPOSITION AND METHOD OF MAKING SAME | QIN, JIAN |
| <u>10279769</u> | Not Issued     | 71  | 10/24/2002 | Absorbent structure comprising synergistic components for superabsorbent polymer                                     | QIN, JIAN |
| <u>10291187</u> | Not Issued     | 61  | 11/08/2002 | Absorbent materials having high stiffness and fast absorbency rates  | QIN, JIAN |
| <u>10291237</u> | <u>6939914</u> | 150 | 11/08/2002 | HIGH STIFFNESS ABSORBENT POLYMERS HAVING IMPROVED ABSORBENCY RATES AND METHOD FOR MAKING THE SAME                    | QIN, JIAN |
| <u>10291239</u> | <u>6689934</u> | 150 | 11/08/2002 | ABSORBENT MATERIALS HAVING IMPROVED FLUID INTAKE AND LOCK-UP PROPERTIES  | QIN, JIAN |
| <u>10322373</u> | Not Issued     | 71  | 12/17/2002 | Hot air dried absorbent fibrous foams  | QIN, JIAN |
| <u>10328054</u> | <u>6863924</u> | 150 | 12/23/2002 | METHOD OF MAKING AN ABSORBENT COMPOSITE  | QIN, JIAN |

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## Inventor Name Search Result

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Last Name = GRAVERSON

First Name = DEBRA

| Application# | Patent#    | Status | Date Filed | Title   | Inventor Name        |
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| 10631916     | Not Issued | 71     | 07/31/2003 | Absorbent materials and absorbent articles incorporating such absorbent materials | GRAVERSON, DEBRA ANN |

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